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*JULY 24 1914*

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UNITED STATES DEPARTMENT OF AGRICULTURE,  
FOREST SERVICE.

HENRY S. GRAVES, Forester.

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# July Field Program, 1914.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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## OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, in charge of information.

FINDLEY BURNS, in charge of technical review.

Educational cooperation, DON CARLOS ELLIS.

Proofs and forms, CLAUDE M. BALLARD.

GEORGE B. SUDWORTH, dendrologist.

EUGENE S. BRUCE, expert lumberman.

## ACCOUNTS.

M. E. FAGAN, chief.

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## OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—C. A. KOLB, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

PHOTOGRAPHY.—E. S. SHIPP.

ALIENATION.—J. B. SATTERLEE, J. E. BURCH.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. MC LAURIN, property clerk.

## SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, logging engineer; HARRY IRION, office assistant. FRANKLIN H. SMITH, statistician in forest products, special detail, 501 Federal Building, Chicago, Ill.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy, J. H. Foster.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. A. Viquesney, forest, game, and fish warden, Belington, W. Va.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester, Roscommon, Mich.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement, C. H. Shinn.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

## GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Ephraim, Utah.

## LANDS.

JAMES B. ADAMS, assistant forester, in charge; W. J. MANGAN, examiner.

LAND CLASSIFICATION.—E. A. SHERMAN, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—ROBERT V. R. REYNOLDS, in charge.

WATER POWER.—O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer; R. R. RANDELL, junior engineer.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

## PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, administrative assistants.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—FRANK J. HALLAUER.

DERIVED PRODUCTS.—ERNEST BATEMAN, acting in charge; A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, Lester E. Cover.

**ENGINEERING.**—A. L. HEIM, in charge; James O. Bixby, O. M. Sutherland, Harry N. Knowlton.

**MAINTENANCE.**—CHAS. P. JUCKEM, in charge.

**PULP AND PAPER.**—O. L. E. WEBER, in charge; H. E. Surface, Sidney D. Wells, G. C. McNaughton, Sidney E. Lunak, Clinton K. Texter.

**TIMBER PHYSICS.**—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Koehler.

**TIMBER TESTS.**—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

**WOOD PRESERVATION.**—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, James D. MacLean, Robt. E. Prince, E. C. Sparver.

**PATHOLOGY** (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Fleming.

**INDUSTRIAL INVESTIGATIONS.**—O. T. SWAN, in charge, Washington, D. C. Factory Waste and Woodlot Utilization, R. E. Simmons and R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Statistics, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Blighted Chestnut Utilization Studies, Jesse C. Nellis, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Slack-cooperage Investigations, O. T. Swan, Washington, D. C. Tight-cooperage Investigations, John T. Harris, Washington, D. C. Departmental Cooperation, Inspection, and Revision of Government Specifications, R. E. Simmons, Washington, D. C. Box Industry Investigations, Jesse C. Nellis, Washington, D. C. Furniture Industry Investigations (Chicago office, Silviculture), Franklin H. Smith, Chicago, Ill. Study of Commercial Southern Yellow Pine to Determine Improved Grading and Inspection Systems (in cooperation with yellow pine associations), W. D. Brush, C. W. Gould, David G. White, Jacksonville, Fla. Utilization Study of Insect Infested Oak (in cooperation with Bureau of Entomology), J. C. Nellis, Winchendon, Mass. Collaborators, Hu Maxwell, Chicago, Ill.; A. B. Strough, Albany, N. Y.

## ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

**LUMBERMAN'S EXAMINATIONS.**—E. D. Fletcher, Gorham, N. H.; C. D. Cushing and George E. Marshall, Washington, D. C.

**RECONNAISSANCE.**—R. C. Hall, Verne Rhoades, P. T. Coolidge, E. M. Bruner, forest examiners, Washington, D. C.

**EXAMINATION OF LANDS.**—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, forest examiner in charge of party, Gorham, N. H. Natural Bridge Area, E. L. Lindsey, forest assistant in charge of party, Natural Bridge, Va. White Top Area, H. M. Sears, forest assistant in charge of party,

Abingdon, Va. Unaka Area, J. L. Cobbs, jr., forest examiner in charge  
 party, Johnson City, Tenn. Savannah Area, H. G. Spahr, forest  
 examiner, Clayton, Ga. Cherokee Area, S. H. Thompson, forest ex-  
 aminer in charge of party, Etowah, Tenn. Alabama Area, C. E. Beau-  
 mont, forest examiner, Haleyville, Ala.

**SURVEY OF LANDS.**—RUDOLPH DIFFENBACH, forest examiner, in charge; Robt. G. Merritt, forest examiner; E. P. Whitten, examiner of surveys; White Mountain Area, Arthur E. Hoxie, Frederick A. Gardner, and Leon C. Marshall, examiners of surveys, Gorham, N. H.; Potomac Area, A. M. Ockerblad and E. L. Merrill, examiners of surveys, Woodstock, Va.; Unaka Area, E. F. Benedum, examiner of surveys, Johnson City, Tenn.; White Top Area, E. R. Conrad, examiner of surveys, Abingdon, Va.; Mount Mitchell Area, Dave M. Gibson and Thos. A. Cox, jr., examiners of surveys, Marion, N. C.; Nantahala Area, Percy B. Ferebee, transitman in charge, Andrews, N. C.; Pisgah Area, James Denman, examiner of surveys, and Jacob L. Pritchard, national forest examiner, Pisgah Forest, N. C.; Savannah Area, Wm. N. Sloan, Samuel L. Chiles, and Harold G. Wood, examiners of surveys, Highlands, N. C.; Cherokee Area, A. J. Bohn, examiner of surveys, and J. W. Fox, transitman in charge, Etowah, Tenn.; Monongahela Area, Marvin L. Taylor, examiner of surveys, Elkins, W. Va.; Shenandoah Area, C. F. Muzzey, examiner of surveys, Harrisonburg, Va.; Natural Bridge Area, Beverly M. Higginbotham and Robert E. Witt, examiners of surveys, Natural Bridge, Va.

**LAW.**—A. H. McCONVILLE, assistant to solicitor, in charge, Washington, D. C. Record examiners, George E. Taylor, James H. Swan, and E. W. R. Ewing, Bristol, Tenn.; Alfred S. Grigg, Johnson City, Tenn.; Julius Fletcher, Franklin, N. C.; Collin H. Harding, Marion, N. C.; Charles E. Jones, Walhalla, S. C.; Cameron F. McRae, Clayton, Ga.; John M. Burns and John Awtrey, Blue Ridge, Ga.; M. B. Stickley, Staunton, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Moorefield, W. Va.; H. A. Lamprey, Woodsville, N. H.

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## DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

**LAW.**—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

**ACCOUNTS.**—JOHN A. URBANOWICZ, district fiscal agent.

**OPERATION.**—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

**MAINTENANCE.**—GARDNER I. PORTER.

**SILVICULTURE.**—D. T. MASON, assistant district forester; DORR SKEELS and H. F. ELLARD, logging engineers.

**TIMBER SALES.**—A. B. HASTINGS and C. M. STEVENS.

**PLANTING.**—H. H. FARQUHAR and E. F. WHITE.

**S. S. J. MALVEN,** insect control.

**JAMES R. WEIR,** consulting pathologist, Missoula, Mont.

**GRAZING.**—C. H. ADAMS, assistant district forester.

**STUDIES.**—CHAS. E. FLEMING, grazing examiner.

**LANDS.**—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

**CLAIMS.**—P. J. O'BRIEN.

**SETTLEMENT.**—J. W. STREIT.

**LAND CLASSIFICATION.**—C. B. SWIM, assistant.

**PRODUCTS.**—P. R. HICKS.

#### EXPERIMENT STATION.

**Priest River, Kaniksu National Forest.**—DONALD R. BREWSTER, in charge, Priest River, Idaho.

#### NATIONAL FORESTS.

##### IDAHO.

**Clearwater.**—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am).

**Coeur d'Alene.**—MEYER H. WOLFF, forest supervisor, Coeur d'Alene (WU-Am); W. W. Morris, F. I. Rockwell, and Richard C. Eggleston, forest examiners.

**Kaniksu.**—See Washington.

**Nezperce.**—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

**Pend Oreille.**—J. A. FITZWATER, forest supervisor, Sandpoint (WU-Am, N, W); R. Trevor Ferguson, deputy forest supervisor.

**Selway.**—FRANK A. FENN, forest supervisor, Kooskia (WU-N); Charles F. Howell, deputy forest supervisor.

**St. Joe.**—EDWARD A. HOLCOMB, forest supervisor, St. Maries (Continental-WF); Wilford B. Willey, deputy forest supervisor.

##### MONTANA.

**Absaroka.**—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N).

**Beartooth.**—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); J. C. Whitham, deputy forest supervisor.

**Beaverhead.**—C. K. WYMAN, forest supervisor, Dillon (WU-Am) ; John E. David, deputy forest supervisor.

**Bitterroot.**—W. W. WHITE, forest supervisor, Missoula (WU-Am, N).

**Blackfeet.**—R. P. McLAUGHLIN, forest supervisor, Kalispell (WU-Am, GN).

**Cabinet.**—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU-Am, N).

**Custer.**—GEORGE E. MARTIN, forest supervisor, Miles City (WU-Am, N).

**Deerlodge.**—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P-Am, N) ; C. N. Whitney, C. R. Clark, and J. C. Whitham, forest examiners.

**Flathead.**—DONALD BRUCE, forest supervisor, Kalispell (WU-Am, GN) ; John H. Clack, deputy forest supervisor.

**Gallatin.**—ARTHUR H. ABBOTT, acting forest supervisor, Bozeman (WU-Am, N).

**Helena.**—J. B. SEELY, forest supervisor, Helena (WU-Am, N).

**Jefferson.**—SCOTT LEAVITT, forest supervisor, Great Falls (WU-Am, N) ; Wellman Holbrook, deputy forest supervisor.

**Kootenai.**—WILLIAM A. RAYMOND, acting forest supervisor, Libby (WU-Am, GN) ; Justin K. Dwinelle, deputy forest supervisor ; Webster H. Ransom and John C. Ketridge, forest examiners.

**Lewis and Clark.**—THOMAS C. SPAULDING, forest supervisor, Chouteau (WU-Am, GN).

**Lolo.**—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N) ; John E. Keach, forest examiner ; William W. Bennett, deputy forest supervisor.

**Madison.**—ROSCOE G. WILLSON, forest supervisor, Sheridan (WU-Am, N) ; Ralph E. Bodley, deputy forest supervisor.

**Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P-Am, N) ; Fay G. Clark, deputy forest supervisor.

**Sioux.**—See South Dakota.

## NORTH DAKOTA.

**Dakota.**—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche).

## SOUTH DAKOTA.

**Sioux.**—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche).

## WASHINGTON.

**Kaniksu.**—M. N. STICKNEY, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN, via Priest River) ; J. F. Forsythe, deputy forest supervisor.

## DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester; J. H. POTTS, forest examiner; EARL C. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

GRAZING.—J. W. NELSON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification.

## EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—HOWARD R. FLINT, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

## NATIONAL FORESTS.

### COLORADO.

Arapaho.—ALVA A. SIMPSON, forest supervisor, Fraser (WU-Ad); Arthur T. Upson, forest examiner.

Battlement.—JOHN W. LOWELL, jr., forest supervisor, Collbran (WU-WF, G); John W. Spencer, forest examiner.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF); Huber C. Hilton, forest examiner.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G); R. S. Wheeler, forest examiner.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G).

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G).

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P-WF, G); J. E. Martin, forest examiner.

Montezuma.—GORDON PARKER, acting forest supervisor, Mancos (WU-G).

Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF); W. I. Hutchinson, forest examiner; Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

Routt.—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor.

San Isabel.—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); Albin G. Hamel, forest examiner.

San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU-G); A. F. C. Hoffman, forest examiner.

Sopris.—JOHN McLAREN, forest supervisor, Aspen (WU-WF, G); W. G. Baxter, forest examiner.

Uncompahgre.—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G).

White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); Crosby A. Hoar, forest examiner.

#### KANSAS.

Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

#### MICHIGAN.

Marquette.  
Michigan. }—W. B. PIPER, forest supervisor, East Tawas (WU-Am).

#### MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN).

Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU-GN).

#### NEBRASKA.

Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU-Ad); Halsey Nursey, Theodore Krueger, forest assistant, in charge.

#### SOUTH DAKOTA.

Black Hills.—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, forest examiner.

Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad).

## WYOMING.

**Bighorn.**—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest examiner.

**Bonneville.**—L. E. COOPER, forest supervisor, Dubois (WU-Am); Myron W. Thompson, forest examiner.

**Bridger.**—H. C. HALL, forest supervisor, Pinedale (WU-Am).

**Hayden.**—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); P. J. Paxton, forest examiner.

**Medicine Bow.**—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P-Am); D. S. Jeffers, deputy forest supervisor.

**Shoshone.**—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor.

**Sundance.**—PAUL D. KELLETER, forest supervisor, Deadwood, S. Dak. (WU-Ad, Am).

**Washakie.**—C. G. POOLE, forest supervisor, Lander (WU-Am).

## DISTRICT 3.

Arizona and New Mexico. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; PAUL P. PITCHLYNN, geography; O. N. POWELL, highway engineer; HOWARD B. WAHA, national forest examiner—road construction.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner.

GRAZING.—JOHN KERR, assistant district forester.

STUDIES.—R. R. HILL, grazing examiner; ARTHUR D. READ, forest examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; M. M. CHENEY, national forester examiner. Classification: FREDERIC WINN, national forest examiner; FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. H. FINIGAN, surveyor, Carson; W. G. TURLEY, surveyor, Coconino; R. P. A. JOHNSON, surveyor, Carson.

## EXPERIMENT STATION.

**Fort Valley, Coconino National Forest.**—G. A. PEARSON, in charge, Flagstaff, Ariz.

## NATIONAL FORESTS.

## ARIZONA.

**Apache.**—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Clifford W. McKibbin, forest examiner.

**Chiricahua.**—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU-WF).

**Coconino.**—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Bur-rall, forest examiners.

**Coronado.**—ROBERT J. SELKIRK, forest supervisor, Tucson (WU-WF).

**Crook.**—T. T. SWIFT, forest supervisor, Safford (WU-WF).

**Prescott.**—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

**Sitgreaves.**—CHARLES H. JENNINGS, forest supervisor, Snowflake (WU, P-WF).

**Tonto.**—C. C. HALL, forest supervisor, Roosevelt (WU-WF).

**Tusayan.**—HAROLD GREENE, forest supervisor, Williams (WU, P-WF); Robert L. Deering, deputy forest supervisor.

**Zuni.**—See New Mexico.

## NEW MEXICO.

**Alamo.**—R. F. BALTHIS, forest supervisor, Cloudcroft (WU-WF).

**Carson.**—RAYMOND E. MARSH, forest supervisor, Tres Piedras (WU-G); Chas. H. Kissam, deputy forest supervisor.

**Chiricahua.**—See Arizona.

**Datil.**—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); H. Basil Wales, forest examiner.

**Gila.**—HUGH G. CALKINS, supervisor, Silver City (WU, P-WF); Aus-burn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

**Jemez.**—DON P. JOHNSTON, forest supervisor, Sante Fe (WU, P-G, WF); Ira T. Yarnall, deputy forest supervisor.

**Lincoln.**—J. A. KINNEY, forest supervisor, Capitan (WU-WF).

**Manzano.**—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P-WF).

**Pecos.**—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P-G, WF); Ira T. Yarnall, deputy forest supervisor; Las Gallinas Nursery, Herman Krauch, forest examiner.

**Zuni.**—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P-WF).

## DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

PLANTING.—J. M. FETHEROLF.

GRAZING.—HOMER E. FENN, assistant district forester.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; B. L. Wheeler, mineral examiner; C. G. Smith, in charge of land classification.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

## EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; E. R. Hodson and S. E. Bower (temporary detail), Ephraim, Utah.

## NATIONAL FORESTS.

## ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

## IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest examiner.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am); L. W. Hastings, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU-Am); Herman Work, forest examiner.

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-AM).

Minidoka.—W. M. CAMPBELL, forest supervisor, Oakley (WU-AM).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am).

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; W. N. Sparhawk, forest examiner.

Pocatello.—CLINTON G. SMITH, forest supervisor, Logan, Utah; E. C. Shepard, deputy forest supervisor; Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am); S. S. Stewart, deputy forest supervisor.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); Herbert G. McPheters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; J. W. Stokes, forest examiner.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); A. E. Oman, forest examiner.

#### NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU-WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am); Raymond G. Steele, deputy forest supervisor.

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF); D. B. Bailey, deputy forest supervisor.

Ruby.—JAMES M. RYAN, forest supervisor, Deeth (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF); Raymond G. Steele, deputy forest supervisor.

#### UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF).

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); E. C. Shepard, deputy forest supervisor.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU-WF); Lester E. Hitchcock, forest examiner.

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina (WU-WF).

La Sal.—J. W. HUMPHREY, forest supervisor, Moab (WU-WF).

Manti.—\_\_\_\_\_, Ephraim (WU-WF); B. E. Mattsson, forest supervisor; W. M. Mace, deputy forest supervisor.

Minidoka.—See Idaho.

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF).

Uinta.—A. W. JENSEN, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor.

Wasatch.—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P-Am, WF); Lee A. Harris, deputy forest supervisor; Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas.

## WYOMING.

**Ashley.**—See Utah.

**Caribou.**—See Idaho.

**Palisade.**—See Idaho.

**Targhee.**—See Idaho.

**Teton.**—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest examiner.

**Wyoming.**—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, deputy forest supervisor; R. A. Stretch, forest examiner.

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## DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome street, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; W. C. HODGE, jr., in charge information; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman; H. N. ORMSBEE, logging engineer.

LOUIS MARGOLIN, forest examiner, reconnaissance.

FOREST INVESTIGATIONS.—L. T. LARSEN, forest examiner.

RALPH HOPPING, national forest examiner, insect control.

CHARLES H. ENSIGN, scaler, mill scale study.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification; S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, deputy forest supervisor, in charge of field party. Entry surveys; P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

## EXPERIMENT STATIONS.

**Feather River, Plumas National Forest.**—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.

**Converse, Angeles National Forest.**—EDWARD N. MUNNS, forest assistant, in charge, Seven Oaks, Redlands, Cal.

## NATIONAL FORESTS.

## CALIFORNIA.

**Angeles.**—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

**California.**—M. A. BENEDICT, forest supervisor, Oriental (WU via Willows-WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

**Cleveland.**—S. W. WYNNE, forest supervisor, San Diego (WU, P-WF).

**Eldorado.**—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); Oscar M. Evans, forest examiner.

**Inyo.**—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

**Klamath.**—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, forest examiner; John T. Noddin, forest ranger, reconnaissance.

**Lassen.**—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff-WF); Shirley W. Allen, deputy forest supervisor; R. H. Boerker, forest examiner.

**Modoc.**—W. G. DURBIN, forest supervisor; Alturas (P-WF); Belknap C. Goldsmith, forest examiner.

**Mono.**—See Nevada.

**Monterey.**—N. H. SLOANE, forest supervisor, Arbolado (WU, Monterey-WF, Monterey).

**Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-G); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.

**Santa Barbara.**—C. E. RACHFORD, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest examiner.

**Sequoia.**—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor-WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.

**Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest examiners; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.

**Sierra.**—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); Ernest G. Dudley and Cary Hill, forest examiners.

**Stanislaus.**—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.

**Tahoe.**—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); W. A. Merrill, deputy forest supervisor; W. H. Gallaher and K. Mills, forest examiners.

**Trinity.**—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter, forest examiner.

#### NEVADA.

**Eldorado.**—See California.

**Inyo.**—See California.

**Mono.**—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).

**Tahoe.**—See California.

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### DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON, lumberman; EDWIN C. ERICKSON, scaler.

PLANTING.—J. F. KÜMMEL and C. P. WILLIS, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, national forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; W. J. Paeth, Portland; C. W. Zimmerman, Cornelius Barry, Seattle, Wash.

#### EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest assistant, in charge, Carson, Wash.

## NATIONAL FORESTS.

## ALASKA.

**Chugach.**—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thomas M. Hunt, deputy forest supervisor.

**Tongass.**—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Geo. L. Drake, forest examiner.

## OREGON.

**Cascade.**—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); B. F. Heintzleman, deputy forest supervisor.

**Crater.**—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, William E. White, Bruce Hoffman, forest examiners.

**Deschutes.**—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T-GN).

**Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev-P, WF); R. A. Bradley, deputy forest supervisor; Norman G. Jacobson, forest examiner.

**Klamath.**—See California.

**Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker).

**Minam.**—EPHRAIM BARNES, forest supervisor, Baker (WU-Am).

**Ochoco.**—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am); Allen Hodgson, deputy forest supervisor.

**Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest examiner.

**Paulina.**—Apportioned for administrative purposes to the Deschutes, the Fremont, and the Crater.

**Santiam.**—F. H. BRUNDAGE, forest supervisor, Albany (WU, P-WF); A. R. Wilcox, forest examiner; W. H. Leve, forest examiner.

**Siskiyou.**—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.

**Siuslaw.**—H. B. RANKIN, forest supervisor, Eugene (WU, P-WF); S. C. Beach, deputy forest supervisor; H. M. Johnson, forest examiner.

**Umatilla.**—W. W. CRYDER, forest supervisor, Heppner (WU, P-Am).

**Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor; A. F. Kerr, forest examiner.

**Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); N. J. Billings, deputy forest supervisor.

**Wenaha.**—See Washington.

**Whitman.**—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); R. M. Evans, deputy forest supervisor.

#### WASHINGTON.

**Chelan.**—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

**Columbia.**—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; L. Wernsted, forest examiner; C. P. Willis, forest examiner.

**Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor.

**Okanogan.**—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

**Olympic.**—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor.

**Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest examiner.

**Snoqualmie.**—STANTON G. SMITH, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Alexander G. Jackson, forest examiner.

**Washington.**—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N).

**Wenaha.**—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

**Wenatchee.**—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN).

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## DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester; FRANKLIN W. REED, assistant district forester; K. W. WOODWARD, forest inspector; H. O. STABLER, assistant district forester.

#### NATIONAL FORESTS.

##### ARKANSAS.

**Arkansas.**—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); D. E. Fitten, deputy forest supervisor; C. J. Heller, forest examiner.

**Ozark.**—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); R. C. Huey, deputy forest supervisor; Robert S. Wallace, forest examiner.

## FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P); W. F. Hill, deputy forest supervisor.

## OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

## PURCHASE AREAS.

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P-Ad).

Georgia.—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P-Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-Ad).

Mount Mitchell.—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P-Ad).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P-Ad).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P-Ad).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Natural Bridge, Va. (WU, P-Ad).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-Ad).

Savannah (N).—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P-Ad).

Savannah (S).—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P-Ad).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P-Ad).

Smoky Mountain.—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P-Ad).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P-Ad).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P-Ad).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P-Am).

## BUREAU OF ENTOMOLOGY.

L. O. HOWARD, Chief.

BRANCH OF FOREST INSECT INVESTIGATIONS—A. D. HOPKINS, in charge.

### FOREST INSECT FIELD STATIONS.

Northern Rocky Mountain Station, Missoula, Mont., for the States of Montana, Idaho, eastern Oregon, eastern Washington, Wyoming, Nebraska, and South Dakota, north of the 42d parallel of latitude. Josef Brunner, in charge.

Southern Rocky Mountain Station, Colorado Springs, Colo., for the States of New Mexico, Arizona, Colorado, Utah, and Nevada. W. D. Edmonston, in charge.

Pacific Slope Station, Placerville, Cal., for the States of California, western Oregon, and western Washington west of about the 120th meridian. H. E. Burke, in charge.

Pacific Slope Substation, Ashland, Oreg., for the special investigation of insect enemies of forest-tree seeds. J. M. Miller, in charge.

Eastern Station, East Falls Church, Va., for the Eastern States. S. A. Rohwer, in charge.

### SERVICE CHANGES.

#### APPOINTED.

ACQUISITION.—Theron N. Mize, M. G. Slarrow, Ray D. Barnes, Philip H. Burch, Dow G. Beck, Paul G. Jenney, Lawrence Nelson, Burleigh R. Downey, Fred. A. Spencer, transitmen.

GRAZING.—Fred. D. Douthitt, grazing assistant.

DISTRICT 1.—Hartley A. Calkins, draftsman (topographic), district office. Operation: George A. Edwards, Edward P. Keron, Jay B. Fletcher, Lolo, scalers; Francis T. Carroll, Beaverhead; Emil A. Anderson, Harry M. Ralston, Blackfeet; Arthur M. Baum, Beartooth; Orie E. Heater, James Carl Saint, Cabinet; Edward W. Kurtz, Deer-lodge; Elmer H. Billsborough, Ezra Ingram Shaw, Flathead; Orrin C. Bradeen, Helena; Ray L. Greathouse, Jefferson; Chester A. Simpson, Kootenai; Claude R. Townsend, Stanley C. Sanderson, Lorenzo F. Jefferson, Lewis and Clark; Ross L. Stalcup, Madison; James N. Templer, Sioux, assistant forest rangers; Charlotte M. Ellerbrock, clerk (stenographer and typewriter), Blackfeet.

DISTRICT 2.—Operation: Berney F. Kitt, civil engineer and draftsman, district office; Thomas V. Keefe, forest assistant, Montezuma

Fred L. Martin, district office; Riley Cass, jr., Henry L. Miller, Pike; Walter H. Serfoss, Battlement; Hans N. Kleiber, Lionel H. Sherman, Bighorn; Earl W. Hummel, Haines F. Pond, Black Hills; Thomas L. Northrop, Cochetopa; Thomas E. Price, Durango; Louis H. Murphey, Frank R. Olds, John V. Leighou, Harney; John C. Peryam, Horace B. Quivey, Hayden; Harry Friend, Holy Cross; Fred J. Stock, Medicine Bow; Wm. C. Davis, Minnesota; Lucas D. J. Chaves, Rio Grande; Austin P. Russell, Pleasant H. Sallee, Oliver E. Taylor, Routt; Holland Coleman, San Isabel; Walter F. Goodman, Homer Weller, Shoshone; Rolla C. Prater, Leonard C. Shoemaker, Sopris; Charles L. Cecil, Albin E. Drakenberg, Maryland J. Valentine, Superior; Harry C. Bennett, Uncompahgre; John G. Bruce, C. D. Noble, Washakie; John G. Hossack, White River, assistant forest rangers; Elizabeth M. Turner, clerk (stenographer and typewriter), Uncompahgre.

DISTRICT 3.—Operation: Walter A. Stenhouse, draftsman (topographic), district office; Charles M. Weber, copist topographic draftsman, district office; William Roland Lynch, Carson; Robert Stephenson, Carson; Germain H. Gage, Joseph M. Phillips, Gila; James I. Hatch, R. L. Pfaffle, Jemez; Roscoe C. James, Claude H. Parks, Lincoln; Otto P. Schoenberg, Manzano; Hugh M. Bryan, Marcel F. Pincetl, Pecos; Ralph C. Ramsay, Prescott; Franklin H. Owens, Sitgreaves; John C. Parent, Frank M. Stanley, Tonto; Edward H. Oldham, Tusayan, assistant forest rangers; Greta Herrick, Prescott; Orwyn P. Veach, Sitgreaves, clerks (stenographers and typewriters). Lands: Claire A. Coggeshall, clerk (stenographer and typewriter), district office; Howard B. Ricketts, clerk, district office.

DISTRICT 4.—Operation: Jack L. Oquin, Warren C. Taylor, Boise; Leslie E. Dodge, George L. McGowan, Challis; Dagbert M. Adair, Junius Webb, Fishlake; Lewis T. Quigley, La Sal; Dewey J. Hesner, Robert Johnson, Charles McKelvey, Lemhi; Simon Kinney, Minidoka; Alvin E. Harris, John N. Moutschka, Ernest Stone, Palisade; William F. Tribe, Frank H. Miller, John D. Parker, DeWitt Russell, Harmon A. Shannon, Payette; Percy L. White, Ruby; Clarence L. McCracken, Salmon; Arthur N. Howard, Horace B. Howland, Henry K. Lewis, Sawtooth; Karl C. Allan, Targhee; James W. McGowan, James A. Wholey, Toiyabe; George E. Holman, Unita; George Donart, Karl L. Mann, Henry L. Smith, Weiser, assistant forest rangers; Mark Anderson, Caribou; Leon C. Hurt, Manti; Homer S. Youngs, grazing assistants.

DISTRICT 5.—Archibald M. Cooper, Walter D. Marx, Angeles; Wallace E. Green, Mono; John F. Douglas, Walter Douglas, Albert Gould, Challen L. Grigsby, Herbert F. Wilcox, William S. Williams, Plumas; Lee R. De Camp, Sequoia; George H. Cory, Shasta, assistant forest rangers; Harvey D. Gerwig, Cleveland; William L. Mayhew, Lassen; Alfred R. Ratcliffe, Mono; William E. Harris, Tahoe, forest clerks; Harold C. Haglund, clerk (stenographer and typewriter), Lassen.

DISTRICT 6.—Operation: Christopher Moen, clerk (forest), Cascade; Ethel Winter, clerk (stenographer and typewriter), Fremont; Wm. J. McDonald, Chugach; Wm. L. Jones, Bert A. Nason, Lee C. Port, Crater; J. O. F. Anderson, Charles M. Irvine, Ochoco; Paul S. Heaton, Okanogan; John D. Ahl, Lee F. Chartrand, Earl H. McArdle, Olympic; Thomas R. Brown, Roy E. Garwood, Oregon; Frank K. Childs, Paulina; Clarence D. Springer, Santiam; Claude E. Noble, Siskiyou; John W. Lundin, Arthur E. Kloe, Snoqualmie; Horace U. Cochran, Siuslaw; Otto G. King, Lewis E. McDaniels, Umpqua; Arthur G. Collins, Frank B. Lenzie, Francis A. Varo, Wenatchee; Albert G. Angell, Rush Ramey, Wallace W. Weber, Whitman, assistant forest rangers; Chas. T. Gardner, clerk to forest ranger, Tongass.

DISTRICT 7.—Garner B. Anchors, Florida; Charles Christian, Samuel S. Blair, Henry Koen, Ozark, assistant forest rangers.

#### PROMOTED IN RANK.

ACQUISITION.—E. M. Bruner, W. R. Barbour, R. J. Noyes, Karl Schmitt, H. G. Spahr, H. S. Davis, forest assistants to forest examiners.

DISTRICT 1.—Operation: Ralph E. Bodley, Madison, William W. Bennett, Lolo; Fay G. Clark, Missoula, forest assistants to deputy forest supervisors; Harry Lee Baker, Kootenai; Roy A. Phillips, Lolo, assistant forest rangers to forest rangers; Leslie F. Vinal, forest ranger to scaler, Kootenai. District office: John B. Somers, assistant forest ranger to national forest examiner.

DISTRICT 2.—Operation: Robert E. Pratt, land examiner to surveyor, district office; Fred R. Johnson, forest examiner to forest supervisor, Nebraska; Edward H. Peck, assistant forest ranger to forest ranger, Routt.

DISTRICT 3.—Operation: Henry L. Taylor, Crook; Virgil D. Smith, Sitgreaves, assistant forest rangers to forest rangers; James F. Mullen, national forest examiner to forest supervisor, Manzano. Lands: John A. Adams, forest ranger to deputy forest supervisor, district office.

DISTRICT 4.—Operation: Bernard E. Mattsson, Manti; Walter M. Campbell, Minidoka, deputy forest supervisors to forest supervisors; Edwin C. Shepard, Cache; Hubert C. Williams, Payette, forest examiners to deputy forest supervisors; William M. Mace, forest ranger to deputy forest supervisor, Manti; Duncan M. Lang, scaler to lumberman; Sterling L. Colton, La Sal; Thomas E. Woolstenhulme, Wasatch, assistant forest rangers to forest rangers.

DISTRICT 5.—Edward N. Munns, district office; Douglas K. Noyes, Klamath; Dwight C. Birch, Sierra, forest assistants to forest examiners; Frederick H. Smith, assistant forest ranger to clerk (stenographer and typewriter), district office; Martin E. White, assistant forest ranger to forest ranger, Shasta.

DISTRICT 6.—Operation: Jasper T. Taylor, Colville; Robert J. O'Farrell, Rainier, assistant forest rangers to forest rangers; Reginald A. Bradley, forest ranger to deputy forest supervisor, Fremont; George L. Drake, forest assistant to forest examiner, Tongass. Silviculture: Lorence A. Nelson, scaler to lumberman, district office. Products: C. W. Zimmerman, assistant engineer in forest products to engineer in forest products, Seattle Laboratory.

#### CHANGE IN DESIGNATION.

SILVICULTURE.—Forest Investigations: Raphael Zon, chief, office of Silvics, to chief, Forest Investigations; Samuel T. Dana, assistant chief, office of Silvics, to assistant chief, Forest Investigations.

LANDS.—Water Power: O. C. Merrill, hydroelectrical engineer to chief engineer; T. W. Norcross, assistant engineer to assistant chief engineer.

DISTRICT 1.—District Office: Alfred B. Hastings, deputy forest supervisor to forest examiner. Operation: William W. Morris, deputy forest supervisor to forest examiner, Coeur d'Alene; Knox McAnally, forest ranger to clerk, Blackfeet.

DISTRICT 2.—Operation: Louis Knowles, forest supervisor, Sundance, to deputy forest supervisor, Harney.

DISTRICT 3.—Operation: William L. Scofield, Apache, Earl W. Lovridge, Carson; Murrell W. Talbot, Coconino; Ward Shepard, Datil; Marinus Westveld, Gila; Thomas P. Reid, Pecos; Edward P. Ancona, Prescott; Reginald D. Forbes, Tonto, George W. Kimball, Tusayan, forest assistants to assistant forest rangers.

DISTRICT 5.—David P. Godwin, forest supervisor to national forest examiner, district office.

#### RESIGNED.

ACQUISITION.—John H. Keyes, forest assistant; Archibald D. Duffie, Vincent L. Ahern, transitmen.

PRODUCTS.—Laboratory: Charles S. Gwinn, assistant engineer in forest products.

DISTRICT 1.—Operation: David T. Conkling, forest supervisor, Gallatin; Henry W. de Nancrede, forest examiner, Coeur d'Alene; Waldo D. Barlow, forest assistant, Helena; Argyll L. Rumbaugh, Beaverhead; James E. Adams, Lewis and Clark; Henry P. Barringer, Lolo, forest rangers; Walter R. Eyman, Absaroka; Emerson L. Yeager, Bitterroot; James R. Mahoney, William L. Davis, Blackfeet; Charles A. Newman, Custer; Ralph J. Eveleth, Jefferson, assistant forest rangers; Harold L. Redlingshafer, forest clerk, Helena; Josephine A. Torkelson, clerk (stenographer and typewriter), Blackfeet.

DISTRICT 2.—Operation: Charles B. Gosorn, draftsman, district office; George R. Morrison, forest examiner, Holy Cross; Victor A. Beede,

forest assistant, Pike; Stanley R. Brock, forest ranger, Routt; Charles A. Davis, Bighorn; Burns Will, Colorado; Henry H. McCrary, Harney; Frank E. Stapleton, Routt; Harry P. Reifsneider, Superior, assistant forest rangers; A. M. Bittner, forest clerk, Routt.

DISTRICT 3.—Operation: G. Harris Collingwood, Apache; Louis H. Mosimann, Pecos; Marshall D. Loveless, Prescott; William M. Cohea, Tonto, assistant forest rangers; Franklin R. Taylor, Crook; Harry L. Castle, Tonto, forest rangers; N. Curtis Case, deputy forest supervisor, Gila; Frank P. Collins, clerk, Sitgreaves. Lands: Otto F. Swenson, forest examiner, district office.

DISTRICT 4.—Operation: Alexander McQueen, forest ranger, Pocatello; Lorenzo E. Hammond, Cache; Lewis A. Harris, Dixie; Thomas Alvey, Kaibab; Marion T. Johnson, Minidoka; Edward R. Tuttle, Payette, assistant forest rangers.

DISTRICT 5.—Albert C. Brown, Angeles; Charles H. Freeburn, Sequoia, assistant forest rangers; Frank Helfrich, forest ranger, Shasta; Ralph H. Browning, Cleveland; Alfred W. Rogers, Lassen, forest clerks; William M. Slosson, forest supervisor, Santa Barbara.

DISTRICT 6.—Lands: Walter M. Stephen, mineral examiner, district office. Operation: Britian T. Douglass, Colville; Julius M. Shields, Malheur; William C. Sweat, Okanogan; Joseph H. Prout, Oregon; Harold T. Lewis, Siuslaw; Charles R. McAlister, Umatilla, assistant forest rangers.

#### DISMISSED.

DISTRICT 5.—Thomas M. Kennedy, clerk (stenographer and typewriter), district office.

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The following resolution was adopted at the five hundred and seventy-fifth regular meeting of the service committee on June 17:

*Resolved*, That in the death of Overton W. Price, a former member of this committee, the members of the committee have sustained the loss of a friend and counselor whose nobility of character, sincerity of friendship, and wise advice and guidance have been a source of inspiration and encouragement to us all; the profession of forestry one of its most illustrious members; the cause of conservation one of its most brilliant exponents and leaders; and the Nation a man who was faithful and self-sacrificing in his efforts to preserve to the people their heritage of natural wealth; therefore this committee records its sense of personal loss and extends to the members of Mr. Price's family its deepest and most sincere sympathy in their bereavement.

With deep regret announcement is made of the death of Alfred P. Hamilton, examiner of surveys, April 15; Barnard McNulty, forest ranger, Nevada, April 24; John F. Pernot, forest examiner, District 6, June 17; and E. A. Melzar, assistant chief, Office of Accounts, July 17.

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## SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

### SERVICE ORDER 43.

#### DISTRICT 7.

JUNE 27, 1914.

There is hereby established in the Forest Service, effective on and after July 1, 1914, an additional administrative district to be known as District 7, with headquarters at the Forest Service, Washington, D. C. This district will include the Luquillo, Arkansas, Ozark, Wichita, and Florida National Forests, the present Weeks Law Purchase Areas and such additional Purchase Areas as may be designated in the eastern states. The new district will be in charge of Assistant Forester Wm. L. Hall, who will perform the duties which in the other districts devolve upon the district forester. The various branches of the Forest Service will exercise the same administrative functions over this district as they do over the other six.

H. S. GRAVES, *Forester.*

#### ACCOUNTS.

##### **Alterations Made in Accounts During Administrative Examination.**

The following memorandum and copies of letters have been received from the Chief Clerk of the Department of Agriculture:

DEPARTMENT OF AGRICULTURE,  
OFFICE OF CHIEF CLERK,  
*Washington, D. C., July 6, 1914,*

*To chiefs of bureaus, divisions, and offices:*

I am directed by the advisory committee on finance and business methods to transmit for your information and guidance the attached copy of a letter dated June 23, 1914, from the Auditor for the State and Other Departments with reference to alterations made during the administrative examination affecting accounts submitted by claimants, and copy of an extract from a letter of the Comptroller of the Treasury to the Secretary of Agriculture under date May 28, 1914, on the same subject.

As suggested by the auditor, steps should be taken to avoid any administrative cancellation, erasure, or change of a claimant's bill as rendered.

R. M. REESE, *Chief Clerk.*

TREASURY DEPARTMENT,  
Washington, June 28, 1914.

The honorable the SECRETARY OF AGRICULTURE,  
*Washington, D. C.*

SIR: There has been received to-day for settlement in this bureau claim of the Northern Pacific Railway Co., rendered by said company in the sum of \$71.32, Forest Service voucher No. 08644. The first two entries on the voucher carry charges for transportation of household goods of a Forest Service employee. The figures appearing in the columns "Weight," "Gross amount," "Land-grant deduction," and "Amount claimed" in these first two entries have been canceled in pencil, while corrective or memorandum pencil entries have been added. The total of the bill also has been crossed out and new figures substituted above in ink.

The office has frequently had occasion to call attention to alterations apparently made during the administrative examination affecting accounts submitted by claimants. The comptroller, in several decisions, has strongly criticized this practice, which he terms "spoliation" of the voucher. I should be glad if steps may be taken to avoid any administrative cancellation, erasure, or change of the claimant's bill as rendered.

Very respectfully,

E. D. HEARNE, Auditor.

[Extract from letter of Comptroller of the Treasury to Secretary of Agriculture dated May 28, 1914.]

I note that in suggesting certain instructions on the voucher forms you propose to commit the accounting officers of the Treasury to sanctioning the practice of permitting the claimant to change figures or other important accounting data on the voucher, either before or after certification by him, when made over his signature or initials. While it is true that the accounting officers may, in the exercise of their discretion and judgment, allow a claim where such changes and corrections have been bona fide made, yet this is far different from encouraging the practice of certifying to and approving altered vouchers. Wherever practicable vouchers showing erasures or other alterations when received from claimant should be returned to him for purpose of being recast before administrative certification and approval. The instructions should show that erasures or other alterations in the bill are not to be permitted. Fiscal Regulation No. 30, or other departmental regulation contrary to this view, should be modified accordingly.

## LAW.

## OFFICE OF THE SOLICITOR.

**Law Cases in District 1—**

United States *v.* Hough and Babbitt: Timber trespass, Coeur d'Alene National Forest. Case closed upon payment of \$120.39, full value of timber cut.

United States *v.* Rose Lake Lumber Co.: Timber trespass, Coeur d'Alene National Forest. Case closed upon payment of \$185.56, full value of timber cut.

United States *v.* Peat Parker: Timber trespass, Pend Oreille National Forest. Case closed upon payment of \$225, full settlement of trespass.

United States *v.* T. D. Farrow: Grazing trespass, Flathead National Forest. Case closed upon payment of \$42.50, full value of forage consumed.

United States *v.* Charles H. Thex: Grazing trespass, Custer National Forest. Case closed upon payment of \$381.90, full value of forage consumed.

**Law Cases in District 2—**

United States *v.* Arthur Pennington, Woodland Mercantile Co., and Colorado Midland Railway Co.: Timber trespass, Pike National Forest. Judgment rendered February 12, 1914, against Pennington and the Woodland Mercantile Co. for \$489.73, with interest amounting to \$47.87, total \$537.60. Complaint against Colorado Midland Railway Co. dismissed without prejudice. Final settlement of case now pending before the Department of Justice upon offer of \$184.64 by Woodland Mercantile Co. in satisfaction of judgment.

United States *v.* Thomas J. Van Arsdale: On April 22, 1914, the grand jury, sitting at Pueblo, Colo., returned an indictment against Thomas J. Van Arsdale for impersonating a forest officer.

United States *v.* Crago & Kaufman: Fire trespass, Black Hills National Forest. Settled by the payment of \$130.

United States *v.* Telluride Power Co.: Suit for \$1,552.44 damages for destruction of ranger station by bursting of reservoir, Montezuma National Forest. Settled by the acceptance of \$776.22 offered by the company.

**Law Cases in District 3—**

On April 6, in the grazing trespass case against J. W. Marley & Sons (W. H. Burbage, receiver), Coconino National Forest, a decree was entered enjoining the defendants from further grazing stock in trespass on the Forest and requiring the removal of all stock from the Forest. A judgment for \$450 damages was also entered.

On April 30, the judgment against John Parker for grazing trespass on the Alamo National Forest was satisfied by the payment of \$244.22, the amount of the judgment, interest, and costs.

### **Law Cases in District 4—**

On March 26 Jacob Bear was found guilty of leaving a camp fire unattended on the Boise National Forest and was fined \$25 and costs, which he paid.

Civil damages in the sum of \$14.64 were paid May 15 by Joseph Christensen on account of a fire permitted to escape from homestead lands to the Fillmore National Forest.

The case of the United States *v.* the Utah Light & Railway Co., involving the question as to whether by construction of its plant on public lands prior to May 14, 1896, any rights had vested as against the United States, was tried and argued June 1 in the United States district court at Salt Lake City. Decision was rendered June 29 sustaining all the contentions of the Government and granting a permanent injunction against the maintenance of the projects of this company on the Wasatch National Forest without permit.

### **Law Cases in District 5—**

Fire trespass case against D. C. McNabb on the Angeles National Forest was settled by the payment of \$295.85.

Fire trespass case against B. G. Collins on the Sierra National Forest was settled by the final payment of \$32.50, making a total payment of \$62.50.

Timber trespass case on the Sierra National Forest against Humphreys Bros. was settled by the payment of \$191.20.

Grazing trespass case against Thomas Brady on the Plumas National Forest was settled by the payment of \$20.37.

Trial of the fire trespass case against Byron Scoggins was held at Fresno on May 4 and 5, 1914, for the recovery of damages. Verdict was returned by the jury for the defendant. In this case testimony regarding the salaries and expenses of forest officers was admitted as an element of damage.

The criminal grazing trespass case of United States *v.* Pierre Grimaud was closed by a plea of guilty and a fine of \$10 in the Federal court at Fresno.

The master in chancery in San Francisco made a report recommending cancellation of the patent of Harry M. Grover to the St. Louis placer claim, within the Eldorado National Forest, on the ground of fraud.

The master in chancery also made a report recommending cancellation of the homestead patent of George E. Simpson, within the California National Forest, on the ground of fraud.

### **Law Cases in District 6—**

W. K. Ladd pleaded guilty to a grazing trespass on the Wenaha National Forest, and was fined \$50 by the United States district court at Spokane, which he immediately paid.

W. L. LaMotte. Injunction to restrain use of waters on Alder Creek Ranger Station, Okanogan National Forest: In accordance with the

stipulation between parties a decree was entered in the United States District Court for the Eastern District of Washington, that the United States is the owner and entitled to the use of 3 miners' inches, under 4-inch pressure, of the waters of Alder Creek for a period not exceeding 3 days in each 10 days from June 15 to September 1 of each year, provided that the total use during that period shall not exceed 16 days. The case of LaMotte against Newton A. Wilcox, forest ranger, and George W. Milham, forest supervisor, officers of the Government, and others, involving title to said water, and initiated in the Superior Court of Okanogan County, was dismissed as to the above defendants.

George Haveman and George W. Ellison, fire trespass, Washington National Forest. The defendants were indicted by the grand jury, pleaded guilty, and were fined \$25 each, which was paid.

Monumental Mines Co., timber trespass, Siskiyou National Forest. This action was brought on April 3, 1912, for the cutting of timber on the Klamath National Forest, State of California. Since the Attorney General directed the institution of this action, that part of the Klamath Forest within which the trespass occurred was added to the Siskiyou National Forest in California, but became a part of this district. The suit was compromised by the payment of \$494.10. While the case was handled largely by District 5, the amount recovered was deposited to the credit of this district.

The case of the United States *v.* Simon McKee, criminal fire trespass on the Siskiyou National Forest, was tried in the United States District Court for Oregon on June 8 and 9. Defendant was found guilty and sentenced to a fine of \$50 and 6 months in jail. Sentence was suspended on account of the fact that the defendant is 70 years old.

## SERVICE PUBLICATIONS ISSUED.

*Department Bulletin* 72.—Suitability of Longleaf Pine for Paper Pulp.

*Department Bulletin* 77.—Rocky Mountain Mine Timbers.

*Department Bulletin* 87.—Flumes and Fluming.

*Farmers' Bulletin* 582.—Uses for Chestnut Timber Killed by the Bark Disease.

*Farmers' Bulletin* 592.—Stock Watering Places on Western Grazing Lands.

*Unnumbered Pub.*—Tyloses: A Study of their Occurrence and Practical Significance in some American Woods.

*Unnumbered Pub.*—The Country's Forests.

*Unnumbered Pub.*—Our Timber Supply.

*Unnumbered Pub.*—Systematic Fire Protection in the California Forests.

*Unnumbered Pub.*—Principles and Procedure Governing the Classification and Segregation of Agricultural and Forest Lands in the National Forests.

Folder for Washington National Forest.

Folder for Chelan National Forest.

## CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1914.)

[Numbers in parentheses after the month indicate page.]

Alterations made in accounts during administrative examination; July (25-26).

District 7 established; July (25).

Service Order 43; July (25).

Law cases in district 1; July (27).

2; July (27).

3; July (27).

4; July (28).

5; July (28).

6; July (28-29).

Trespass cases, fire, district 2; July (27).

4; July (28).

5; July (28).

6; July (29).

grazing, district 1; July (27).

3; July (27).

5; July (28).

6; July (28).

Trespass cases, occupancy, district 2 : July (27).  
4 ; July (28).  
5 ; July (28).  
6 ; July (28-29).  
timber, district 1 ; July (27).  
2 ; July (27).  
5 ; July (28).  
6 ; July (29).



